

*\* CORRECTED \**

# CANYON INCIDENT

CA-ORC-17-105068

## INCIDENT ACTION PLAN



### OPERATIONAL PERIOD

9/28/2017 0700

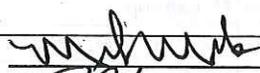
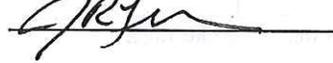
to

9/29/2017 0700





## INCIDENT OBJECTIVES (ICS 202)

<b>1. Incident Name:</b> <p style="text-align: center;">CANYON</p>	<b>2. Operational Period:</b>	Date From: 9/28/2017 Time From: 0700	Date To: 9/29/2017 Time To: 0700
<b>3. Objective(s):</b>			
<u>Management Objectives</u> <ul style="list-style-type: none"> <li>- Provide for emergency personnel and public safety at all times.</li> <li>- Protect property, improvements, and infrastructure.</li> <li>- Ensure coordinated, timely, and accurate release of public information.</li> <li>- Foster and maintain relationships with all cooperators and stakeholders.</li> <li>- Protect economic, natural, cultural and heritage resources.</li> <li>- Maintain fiscal accountability and keep costs commensurate with values at risk.</li> </ul>			
<u>Control Objectives</u> <ul style="list-style-type: none"> <li>- Keep the fire East of Highway 241</li> <li>- Keep the fire South of Highway 91</li> <li>- Keep the fire West of Green River Rd and Foothill Pkwy</li> <li>- Keep the fire North of Santiago Canyon Rd, Blackstar Canyon Rd and Main Divide Truck Trail</li> </ul>			
<b>General Situational Awareness:</b>  Steep and rugged terrain, critically dry and receptive fuel beds, active area for fire history and rolling debris.			
<b>5. Site Safety Plan Required?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
<b>Approved Site Safety Plan(s) Located at:</b>			
<b>6. Incident Action Plan</b>			
<input checked="" type="checkbox"/> ICS 203	<input checked="" type="checkbox"/> ICS 215A	<input type="checkbox"/> Phone List	<input checked="" type="checkbox"/> Fire Suppression Repair Plan
<input checked="" type="checkbox"/> ICS 204	<input checked="" type="checkbox"/> ICS 220	<input checked="" type="checkbox"/> Training Message	<input type="checkbox"/>
<input checked="" type="checkbox"/> ICS 205	<input checked="" type="checkbox"/> Incident Map	<input checked="" type="checkbox"/> Travel Map	<input type="checkbox"/>
<input checked="" type="checkbox"/> ICS 206	<input checked="" type="checkbox"/> Weather Forecast	<input checked="" type="checkbox"/> Demob Plan	<input type="checkbox"/>
<input checked="" type="checkbox"/> ICS 208	<input checked="" type="checkbox"/> Fire Behavior	<input checked="" type="checkbox"/> Finance Message	<input checked="" type="checkbox"/> ICS 214
<b>7. Prepared By:</b> Chris Post		Position/Title: PSC	Signature: 
<b>8. Approved by Incident Commander:</b>		Jim Ferguson	Signature: 
<b>ICS 202</b>			

## ORGANIZATION ASSIGNMENT LIST (ICS 203)

<b>1. Incident Name:</b> CANYON		<b>2. Operational Period: Date From:</b> 9/28/2017		<b>Date To:</b> 9/29/2017	
		<b>Time From:</b> 0700		<b>Time To:</b> 0700	
<b>3. Incident Commander(s) and Command Staff:</b>			<b>7. Operation Section:</b>		
IC/UC's	J. Adams / B. Nunez / B. Estes	Chief	M. Blankenheim		
Deputy	J. Veik / J. Ferguson (T) / J. Estrada (T)	Deputy	T. Ernst		
Safety Officer	J. Buchmeier / J. Janssen	Night Ops	M. Van Loben Sels		
Information Officer	J. Cox / S. Conciadli / L. Kurtz	Staging Area	Park	Cameron Daniels	
Liaison Officer	D. Carreiro / J. Abel / G. McKeown	Branch	I	David Hawks	
Law Enforcement Liaison	J. Davis / E. Lee / S. White	Division/Group	B	Ron Jansen / Antonio Ramirez (T)	
		Division/Group	F	<del>Hartwell</del> COREY STOWE	
		Division/Group	M	TIM CARBY	
<b>4. Agency/Organization Representatives:</b>			Division/Group		
Agency/Organization	Name	Division/Group			
Anaheim Fire & Rescue	T. Ohara	Division/Group			
Corona Fire	M. Samuels	Branch	II	George Casario	
CHP	C. Bullen / C. Johnson	Division/Group	O	ROBERT GOMEZ / M. VOLTRIG(T)	
Edison	T. Whitman	Division/Group	T	Jason Marsh	
CAL Trans	R. McConnell	Division/Group	X	MATTHEW COLVIN	
CCC	P. Hancock				
CDCR	H. Morua				
CAL OES	D. Stone / P. Mercado	Branch	Supp Repair		
		Division/Group	Supp Repair	Gregg Bratcher	
<b>5. Planning Section:</b>					
Chief	C. Post / A. Mitchell				
Deputy	M. Mills				
Resource Unit	G. Garcia / D. Scheurich / J. Irving				
Situation Unit	S. Sherwood / T. Gikas				
Documentation Unit	J. Rechel				
Demobilization Unit	T. Shevenell / D. Pucci				
GISS	T. Knecht				
FBAN / Weather	S. Volmer				
Training Tech Spec	S. Vargas				
Crew Tech Spec	J. Russel				
<b>6. Logistics Section</b>					
Chief	D. Martin / E. Moore / S. Dohman (T)		Air Operations Branch Director		S. Packwood
Supply Unit	P. Lee		Air Support Grp Sup		T. Swanson
Facilities Unit	B. Luiz		Helibase Manager		S. Corn
Ground Support Unit	J. WARDEN		<b>8. Finance/Administration Section:</b>		
Hired Equipment Tech	J. Luckenbach		Chief	J. Ruane / H. Keene / S. Hogan	
Communications Unit	J. Brooks		Time Unit	V. Navarro / A. Corpuz / S. Chavez	
Medical Unit	M. Lathrup		Procurement Unit	J. Andrade / M Lamonica	
Motel Tech Spec	J. Tomsich / M. Aldrich / K. Angres		Comp/Claims Unit	J. Tapia	
			Cost Unit	G. Belk	
<b>Prepared By: Name:</b> Mike Mills <b>Position/Title:</b> PSC <b>Signature:</b> <i>Mike Mills</i>					
<b>ICS 203</b> <b>Date/Time:</b> 9/27/2017 2300 hours					

**Canyon Fire**

National Weather Service San Diego

2017-09-27 2:41 PM PDT

Spot Forecast for Canyon Fire...Orange County Fire Authority  
National Weather Service SAN DIEGO CA  
241 PM PDT Wed Sep 27 2017

Forecast is based on request time of 0500 PDT on September 28.  
IF CONDITIONS BECOME UNREPRESENTATIVE...CONTACT THE NATIONAL WEATHER SERVICE.

.DISCUSSION...

Winds will be a bit lighter through Friday. A ridge of high pressure will build into the region through Friday bringing a bit hotter temperatures, however with weakening offshore flow, it should balance out to only a couple of degrees of warming and slightly lower daytime relative humidity, but slightly better overnight recoveries. Daily wind shifts will still be likely of the seabreeze bringing an afternoon shift to the west-southwest and gusty. Lighter northeast winds are possible during the overnight periods, especially near the ridgetops. Max relative humidity through Thursday will be near 50%, with afternoon minimums near 15 to 20%.

.THURSDAY...

Sky/weather.....Sunny.  
Max temperature.....Around 86.  
Min humidity.....20 percent.  
Eye Level Winds.....West winds 5 to 10 mph. Gusts to 15 mph possible in the afternoon.  
Wind (20 FT).....  
Slopes.....West winds 5 to 10 mph with gusts to 20 mph in the afternoon.  
Ridgetop.....Northeast 10 mph with gusts to 15 mph.  
Mixing Height.....1000 ft AGL...becoming 6000 ft AGL late in the morning, then...becoming 3500 ft AGL late in the afternoon.  
Mixing Winds.....East 5 mph...becoming west in the afternoon.

.THURSDAY NIGHT...

Sky/weather.....Mostly clear.  
Min temperature.....Around 69.  
Max humidity.....45 percent.  
Eye Level Winds.....East winds 5 to 10 mph.  
Wind (20 FT).....  
Slopes.....East winds 10 mph with gusts to 20 mph.  
Ridgetop.....Northeast 10 mph with gusts to 20 mph.  
Mixing Height.....3500 ft AGL...becoming 1000 ft AGL early in the evening.  
Mixing Winds.....Southwest 5 mph...becoming east overnight.

.FRIDAY...

Sky/weather.....Mostly sunny.  
Max temperature.....Around 89.  
Min humidity.....15 to 20 percent.  
Eye Level Winds.....West winds 5 to 10 mph.  
Wind (20 FT).....  
Slopes.....West winds 10 mph. Gusts to 20 mph in the afternoon.

Ridgetop.....North 15 mph with gusts to 25 mph.  
Mixing Height.....500 ft AGL...becoming 6000 ft AGL  
late in the morning, then...becoming 2000 ft  
AGL late in the afternoon.  
Mixing Winds.....East 5 mph...becoming west 5 to 10 mph in  
the afternoon.

.FORECAST DAYS 3 THROUGH 5...

.SATURDAY...

Mostly clear. Lows in the upper 60s. Highs in the lower 80s. East  
winds around 6 mph.

.SUNDAY...

Clear. Lows in the lower 60s. Highs in the mid 70s. Winds east  
5 mph.

.MONDAY...

Mostly clear. Lows in the lower 60s. Highs in the mid 70s. Winds  
southwest 5 mph.

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Forecaster...JAMES BROTHERTON

Requested by...Shane Sherwood

Type of request...WILDFIRE

.TAG 1716242.2/SGX

.EMAIL shanesherwood@ocfa.org, Stephen.Volmer@fire.ca.gov

# FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 2

TYPE OF FIRE: WILDLAND

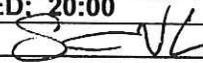
FIRE NAME: CANYON

OPERATIONAL PERIOD: September 28 07:00-07:00

DATE ISSUED: September 27, 2017

TIME ISSUED: 20:00

UNIT: Orange County  
ORC-105068

SIGNED: 

Typed/printed: FBAN Stephen Volmer

## INPUTS

**WEATHER SUMMARY:** Winds will continue to change throughout the shift. Northeast winds 10-15mph will occur during the early morning hours, then shift to the West 5-10mph beginning at 13:00. Ridge top winds will shift again around 01:00 back to the Northeast 8-15mph.

Daytime high temperature 86 degrees (up 7), low temperature will be 69 degrees (up 4). Minimum relative humidity will be 20% during the day, and increase to 45% overnight with moderate recovery expected.

## OUTPUTS

### FIRE BEHAVIOR

**GENERAL:** Fuels have continued to dry out to critical levels over the last week, making ignition and fire spread easy when in alignment with wind, slope, and topography

Stump holes with deep seated heat will be present in all divisions of the fire.

All unchecked spots will continue to creep through fuels, with the potential to become established easily.

Current ERC levels have dropped below the 90<sup>th</sup> percentile, and will continue to slowly drop over the next 7 days.

**SPECIFIC:** The fire behavior below outlines what can be expected from any new start in the local fire area.

**GRASS:** Rate of Spread....55 ft/min Flame Length....5 ft Spotting....1/4 mi Probability of Ignition 70%

**GRASS SHRUB:** Rate of Spread....40 ft/min Flame Length....7 ft Spotting....1/3 mi Probability of Ignition 70%

**BRUSH:** Rate of Spread....85 ft/min Flame Length....18 ft Spotting....1/2mi Probability of Ignition 70%

Fuels Southeast of DIV B and DIV F have not burned in over 40 years, resulting in dense brush fields.

Fuels Southwest of DIV O and DIV M have burned multiple times over the past 10 years and have been converted to a grass model with small amounts of brush.

Sunset 9/27... 18:41 Sunrise 9/28... 06:44

**AIR OPERATIONS:** Mixing begins at 5mph from the East with a height of 6000' AGL, dropping to 3500' AGL in the afternoon changing to the West. Winds will become turbulent during the afternoon wind shift.

## SAFETY

Be alert for rolling material in steep drainages that can ignite fire below you.

Keep alert, the winds will continue to shift each day around 13:00 and 01:00.



# SAFETY MESSAGE CANYON INCIDENT



1. Incident Name: Canyon	2. Operational Period: Date From: 09/28/17 Time From: 07:00	Date To: 09/29/17 Time To: 07:00
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3. Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan:

## **BRIEF ALL YOUR PERSONNEL ON THE CURRENT DAYS IAP BEFORE ENGAGING IN YOUR DIVISIONAL ASSIGNMENT.**

- Stay aware of what is happening around you and adapt your exit strategy accordingly.
- History of increased night activity and wind shifts in fire area.
- ESTABLISH: LOOKOUTS, COMMUNICATIONS, ESCAPE ROUTES AND SAFETY ZONES.
- Be aware of complacency. Many of us were in this same place last year. While that can help some of the operations, it might hinder our planning. Have a contingency plan.
- Review WILDLAND URBAN INTERFACE FIREFIGHTING pgs. 12-16 of your IRPG.
- No PPE allowed in the eating areas. Wash hands regularly and always before entering the eating areas.
- If personnel get fatigued, but it's not a medical emergency, use line medics for evaluation and rehab in a shaded area on the fire line.
- Drive with head lights on and slow down.
- Units working on Hwy 91 must use code three lights while parked. Be aware of traffic passing in the open lane.

**IF IT'S PREDICTABLE IT'S PREVENTABLE**

4. Site Safety Plan Required? Yes  No

5. Prepared by: Name: Buchmeier SOFT / Janssen SOF1(T)

ICS 208

Date/Time September 27, 2017 / 1900



# **DEMOBILIZATION SAFETY MESSAGE**



On Behalf of CAL FIRE Incident Management Team 6 we would like to thank you for your assistance. We wish you safe travels home or to your next assignment. Below are a few reminders to make your trip safer:

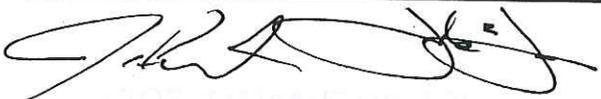
- Conduct walk around before driving.
- Check for and secure all loose items (ie: tools, hose, and packs).
- Wear seat belts at all times.
- Monitor all drivers for fatigue,
  - Switch drivers regularly if possible.
  - Find a safe place to stop, exit the vehicle and stretch.
  - If all else fails, stop and take a short rest to revitalize.
- Obey Posted Speed Limits.
- Ensure Personnel have adequate nutrition and hydration for the trip.
- Be prepared for the next incident.

**Thank you again for your safe hard work!**

JOE BUCHMEIER SOF1

JOSH JANSSEN SOF1 (T)

# INCIDENT ACTION PLAN SAFETY ANALYSIS (ICS 215A)

<b>1. Incident Name:</b> Canyon		<b>2. Incident Number:</b> CA-ORC-17-105068	
<b>3. Date/Time Prepared:</b> Date: 09/27/2017 Time: 1230 hours		<b>4. Operational Period:</b> Date From: 09/28/2017 Date To: 09/29/2017 Time From: 0700 hours Time To: 0700 hours	
5. Incident Area	6. Hazards/Risks	7. Mitigations	
ALL	Routes of Travel; Entering and Exiting Incident Base, Speed Limit at Incident Base	<ul style="list-style-type: none"> <li>• Drive with extreme caution, lights on, drive slowly and expect opposing traffic.</li> <li>• Follow one way traffic plan</li> </ul>	
DIV-M	Hazardous Materials	<ul style="list-style-type: none"> <li>• KEEP OUT!</li> <li>• Isolate &amp; Deny Entry.</li> <li>• No suppression activity.</li> </ul>	
ALL	Aircraft-Tankers and Helicopter-Retardant, Water Drops and Turbulence	<ul style="list-style-type: none"> <li>• Post lookouts and make escape routes and safety zones known.</li> <li>• LCES; Watch overhead for debris and wind changes.</li> </ul>	
ALL	Unburned Area	<ul style="list-style-type: none"> <li>• LCES; Utilize worst case scenario when working in or around pockets of unburned fuels.</li> </ul>	
ALL	Line Construction	<ul style="list-style-type: none"> <li>• Conduct thorough briefing for all personnel (inside rear cover IRPG).</li> <li>• Ensure LCES in place prior to engagement (IRPG p. 7).</li> <li>• Establish adequate Safety Zones (IRPG p.8).</li> <li>• Use Downhill Line Checklist (IRPG p.9). Follow "Look Up, Look Down, Look Around" procedures (IRPG p.4).</li> <li>• Utilize Risk Management Process (IRPG p.1).</li> </ul>	
ALL	Steep Terrain	<ul style="list-style-type: none"> <li>• Watch footing, maintain downhill tool placement.</li> <li>• Be aware of loose material becoming dislodged.</li> </ul>	
ALL	Hydration	<ul style="list-style-type: none"> <li>• Drinking water before, during and after shifts. Up to 1.5 gal. per shift.</li> <li>• Be alert for signs of heat stress in yourself and others.</li> </ul>	
ALL	Fatigue – Physical and Mental	<ul style="list-style-type: none"> <li>• Continually monitor your crew for fatigue and illness.</li> <li>• Rehab your crew; take breaks, out of the smoke if possible.</li> <li>• Know the signs and symptoms. Look out for one another.</li> </ul>	
ALL	Mop-up	<ul style="list-style-type: none"> <li>• Conduct thorough briefing for all personnel (inside rear cover IRPG).</li> <li>• Use all required PPE, including eye protection.</li> <li>• Maintain proper spacing and overhead clearance.</li> <li>• Be alert for stump holes and root cavities.</li> <li>• Minimize exposure to smoke, and rotate personnel into clean air as practical.</li> <li>• Evaluate unburned islands/Increase situational awareness.</li> </ul>	
ALL	Safety Zones	<ul style="list-style-type: none"> <li>• Follow Safety Zone guidelines are followed (IRPG pg. 7)</li> <li>• Carefully evaluate burned areas before designation as Safety Zones due to spotty burning in numerous areas.</li> <li>• When safety zones are distant from work site, set Decision Points to allow personnel to reach them in a timely manner.</li> </ul>	
<b>8. Prepared by (Safety Officer):</b> Name: Joe Buchmeier/Josh Janssen			
ICS-215A			















# ASSIGNMENT LIST (ICS 204)

CONTROLLED UNCLASSIFIED  
INFORMATION//BASIC

<b>1. Incident Name:</b> <p style="text-align: center;"><b>CANYON</b></p>	<b>2. Operational Period:</b> Date From: 09/28/17      Date To: 09/29/17 Time From: 0700              Time To: 0700	<b>3.</b>  Branch: <b>Supp Repair</b>  Div/Group: <b>Supp Repair</b>  <p style="text-align: right;"><b>Page 1 of 2</b></p>
<b>4. Operations Personnel:</b> Operations Section Chief: <b>M. Blankenheim</b> Night Ops: <b>M. Van Loben Sels</b> Branch Director: Division/Group Supervisor: <b>Gregg Bratcher</b>		

Resource Identifier	Leader	Personnel	Request #	Reporting Location, Special Equipment, Remarks, Notes, and Information
<b>** Resources Below in Bold are 12 Hour **</b>				
STG BDU 9355 G	<b>Apodaca, Mike</b>	<b>33</b>	<b>C-23</b>	<b>0700-1900 ICP</b>
STG BDU 9356 G	<b>Richmond, Brett</b>	<b>33</b>	<b>C-24</b>	<b>0700-1900 ICP</b>
DOZ PVT E-29	<b>Van Gaale, Jon</b>	<b>2</b>	<b>E-29</b>	<b>0700-1900 ICP</b>
DOZ PVT E-27	<b>Johnson, Chad</b>	<b>2</b>	<b>E-27</b>	<b>0700-1900 ICP</b>
DOZ PVT E-103	<b>Holtz, Richard</b>	<b>2</b>	<b>E-103</b>	<b>0700-1900 ICP</b>
DOZ PVT E-104	<b>Goodwin, Russ</b>	<b>2</b>	<b>E-104</b>	<b>0700-1900 ICP</b>
DOZ PVT E-106	<b>Bramlett, Manny</b>	<b>1</b>	<b>E-106</b>	<b>0700-1900 ICP</b>
DOZ PVT E-108	<b>Puevah, Eric</b>	<b>2</b>	<b>E-108</b>	<b>0700-1900 ICP</b>
W/T PVT E-88	<b>Lebow, Ron</b>		<b>E-88</b>	<b>0700-1900 ICP</b>
W/T PVT E-91	<b>Oxenham, Gary</b>		<b>E-91</b>	<b>0700-1900 ICP</b>
W/T NAT E-89	<b>Robinson, Scott</b>	<b>1</b>	<b>E-89</b>	<b>0700-1900 ICP</b>
W/T BDF 12	<b>Hernandez, Steven</b>	<b>1</b>	<b>E-94</b>	<b>0700-1900 ICP</b>
W/T PVT E-85	<b>Martin, Jerry</b>	<b>2</b>	<b>E-85</b>	<b>0700-1900 ICP</b>
Grader <b>GDR PVT RCR</b>	<b>ELLIOTT, NATHAN</b>	<b>1</b>	<b>E-2065</b>	<b>0700-1900 ICP</b>
HEQB KAILEY O-53	<b>Kailey, Kanwardip S</b>	<b>1</b>	<b>O-53</b>	<b>0700-1900 ICP</b>
HEQB MONTELONGO O-2022	<b>Montelongo, Andy</b>	<b>1</b>	<b>O-2022</b>	<b>0700-1900 ICP</b>
HEQB ATTEBURY O-52	<b>Attebury, Dustin</b>	<b>1</b>	<b>O-52</b>	<b>0700-1900 ICP</b>
HEQB TOSCANO O-54	<b>Toscano, Gilbert</b>	<b>1</b>	<b>O-54</b>	<b>0700-1900 ICP</b>

**6. Work Assignments:**  
 Implement fire suppression repair plan

**7. Special Instructions:**

**8. Communications** (radio and/or phone contact numbers needed for this assignment):

Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
CDF C3 T4	1	Command	151.3400N	103.5	159.3450N	136.5	Tone 4 -Sierra Peak
CDF T1	11	Tactical	151.2575N	192.8	151.2575N	192.8	
CALCORD	15	Coordination	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
CDF T20	14	Air to Ground	159.3750N	192.8	159.3750N	192.8	AIR TO GROUND
GUARD	16	Emergency	168.6250N		168.6250N	110.9	AIR GUARD

**9. Prepared by: Name:** Jim Irving      Pos/Title: RESL  
**ICS 204**      Date/Time: 9/27/2017 2300 hours      Signature:

CONTROLLED UNCLASSIFIED INFORMATION//BASIC

# AIR OPERATIONS SUMMARY ICS-220

**Incident Name / Number**  
**CANYON FIRE / CAORC17105068**

**Sunrise** 0641    **Startup** 0711    **Cutoff** 1811    **Sunset** 1841

**General Remarks, Safety Notes, Hazards, Air Operations Special Equipment, etc.**  
 TRACK ALL DIPSITE LOCATIONS / NUMBER OF DIPS / GALLONS TAKEN.  
 TRACK ALL DROP LOCATIONS / NUMBER OF DROPS / GALLONS DROPPED  
 ALL GPS DATA TO BE COLLECTED IN DEGREES, MINUTES, DECIMAL MINUTES, FORMAT.  
 AVOID Aerial Application of Retardant / Foam / Agent within 300' of Waterways, Bodies of Water, etc.  
 if Retardant / Foam / Agent is Dropped Within These Areas Immediately Notify the AOB and Provide the Following Information: Lat / Long, Estimated Number of Gallons and a Map Detailing The Area.

Frequencies	RX	Tone	TX	Tone	AM / FM
AIR / GROUND - COMMAND					FM
AIR / GROUND - TACTICAL	159.3750	192.8 (16)	159.3750	192.8 (16)	FM
AIR/AIR ROTARY WING	123.1750		123.1750		AM
AIR/AIR ROTARY WING					AM
AIR TACTICS	166.6750		166.6750		FM
CDF Command 3	151.3400	103.5	159.3450	136.5 (4)	FM
TOLC					AM
DECK	163.1000		163.1000		FM
CALCORD - MEDICAL	156.0750	156.7 (6)	156.0750	156.7 (6)	FM
AIRGAURD - Emergency Only	168.6250	110.9 (1)	168.6250		FM

## HELICOPTERS ( Use page 2 if Needed )

FAA #	Type	Make/Model	Helibase	Avail	Start	Remarks
6HT	1	S-54	Irvine	0700	0800	Helitanker 716
5HT	1	S-64	Irvine	0700	0800	Helitanker 715
ORC C1	2	Bell 412EP	Fullerton	0700	0800	Day & Night Hoist/ALS
C534	2	205	Irvine	0700	0800	Water/ Cargo
623PD	3	Astar	Irvine	0700	0800	Helco / Recon

## FIXED WING ( Use Page 2 if Needed )

FAA #	Type	Make/Model	Base	Avail	Start	Remarks

Time Prepared	Date Prepared	Prepared By
2000	Wednesday, September 27, 2017	Tom Swanson
Shutdown	Operational Period - Date	Operational Period - Time
1911	Thursday, September 28, 2017	0700-0700
Helibase Information	TFR Information	Rescue Ship Information
Name IRVINE Latitude 33.53.572 Longitude 117 36.373	Request # A46 Radius: 2 NM Altitude: 5000' MSL Centerpoint: 33 51.15 Lat 117 41.03 Long	Day Hoist ORC C1 Night Hoist ORC C1 Name Phone Make/Model Location Request Procedure for These Aircraft:
Name Latitude Longitude (use page 2 if needed)	NOTAMS: Frequency <a href="http://tfr.faa.gov/tfr2/list.html">http://tfr.faa.gov/tfr2/list.html</a>	See Medical Plan For Additional Info
Position	Name	Phone
AOBD	Scott Packwood	(530) 310-2236
AOBD	Greg Bradshaw	(949) 877-2841
AOBD (T)	Tom Swanson	(805) 610-2908
ASGS	Scott Corn	(530) 448-2414
HEBM	Kenny Dossey	(949) 322-8815
HEBM(T)		
HTMG		
HLCO	Tim Perkins	(949) 702-3868
ATGS		
ATGS		



# ICS 205 - INCIDENT RADIO COMMUNICATIONS PLAN

<b>1. Incident Name:</b> CANYON		<b>2. Date/Time Prepared</b> Date: 09/27/2017 Time: 1830		<b>3. Operational Period:</b> Date From: 09/28/17 Time From: 0700		<b>Date To:</b> 09/29/17 <b>Time To:</b> 0700		
<b>4. Communications</b>								
Ch#	Function	Name	Assigned To	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
1	Command	CDF C3 T4	All Divisions	151.3400N	103.5	159.3450N	136.5	Tone 4 -Sierra Peak
2								
3								
4								
5	Tactical	CDF T13	DIV F	151.3775N	192.8	151.3775N	192.8	
6	Tactical	CDF T26	DIV M	159.2925N	192.8	159.2925N	192.8	
7	Tactical	CDF T27	DIV B	159.3075N	192.8	159.3075N	192.8	
8	Tactical	NIFC T5	DIV O	166.7250N		166.7250N		
9	Tactical	NIFC T6	DIV T	166.7750N		166.7750N		
10	Tactical	VFIRE 24	DIV X	154.2725N	156.7	154.2725N	156.7	
11	Tactical	CDF T1	SUP REPAIR	151.2575N	192.8	151.2575N	192.8	
12								
13								
14	Air to Ground	CDF T20	All Divisions	159.3750N	192.8	159.3750N	192.8	AIR TO GROUND
15	Coordination	CALCORD	All Divisions	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
16	Emergency	GUARD	All Divisions	168.6250N		168.6250N	110.9	AIR GUARD
17								
18								
19								
20	Emergency	GUARD	All Divisions	168.6250N		168.6250N	110.9	AIR GUARD
<b>5. Special Instructions</b>								
<b>6. Prepared by (Communications Unit Leader): Name: John Brooks COML</b>								Signature: 
<b>ICS 205 - CONTROLLED UNCLASSIFIED INFORMATION//BASIC</b>								Date/Time: 09/27/17 1830

# MEDICAL PLAN ICS 206

1. INCIDENT NAME  
**Canyon**

2. DATE PREPARED  
9-27-17

3. TIME PREPARED  
1500

4. OPERATIONAL PERIOD  
9/28/17 0700 –  
9/29/17 0700

## 5. INCIDENT MEDICAL AID STATIONS

MEDICAL AID STATIONS	LOCATION	PARAMEDICS	
		YES	NO
Medical Supplies	Base Camp		X
MERT w/Treatment	Base Camp	X	

## 6. TRANSPORTATION

### A. AMBULANCE SERVICES

NAME	LOCATION	PHONE	PARAMEDICS	
			YES	NO
Care Ambulance (ALS w/Fire)	Villa Park, OCFA / Anaheim FS 9	714-288-3896		X
Mercy Air 4	Fullerton Airport	800-675-9421	X	
OCFA Air Ship	Fullerton Airport	714-573-6522	X	

### B. INCIDENT AMBULANCES

NAME	LOCATION	PARAMEDICS	
		YES	NO
Care RA 602	Base Camp	X	
Care RA 601	Featherly Park	X	

## 7. HOSPITALS

NAME Med Net Channel	ADDRESS	TRAVEL TIME		PHONE	HELIPAD		BURN CENTER	
		AIR	GRND		YES	NO	YES	NO
		UC Irvine Health Regional Level I Trauma	101 The City Drive South Orange, CA 92868		5	10	714-456-7890	X
Orange County Global MC Level II Trauma / STEMI	1001 N Tustin Avenue, Santa Ana, CA 92705	8	20	714-953-3331	X		X	
Corona Regional MC	800 S Main St Corona, CA 92882	15	45	951-737-6241		X		X

## 8. MEDICAL EMERGENCY PROCEDURES

### EMERGENCY FREQUENCY:

#### LINE EMERGENCY:

Crew Supervisor will contact Division Supervisor with patient complaint/condition and location.

- Division/Group Supervisor contacts:
  1. Closest EMS resource
  2. Communications Unit
- Communications Unit contacts:
  1. Ground or Air ambulance as requested
  2. Operations
  3. Safety
  4. Medical Unit
- Division Supervisor or designee will serve as point of contact and run medical emergency on assigned channel.
  1. A pre-assigned tactical frequency (i.e. CALCORD) should be used for IWI and only for duration of need.
- Communications Unit will clear command channel for emergency traffic as needed and only for duration of need.

#### CAMP EMERGENCY:

Contact Medical Unit with patient complaint/condition and location. Medical Staff will respond to stabilize incident:

- Medical Unit contacts:
  1. Communications
  2. Safety
  3. Logistics
  4. Operations
  5. Crew Supervisor
  6. Comps/Claims

### INJURY REPORTING PROCEDURES

NATURE OF INJURY \_\_\_\_\_  
 LOCATION OF PATIENT \_\_\_\_\_  
 POINT OF CONTACT \_\_\_\_\_  
 TRANSPORTATION REQUESTED BY: AIR \_\_\_ GROUND \_\_\_  
 POINT OF PICKUP \_\_\_\_\_  
 LAT \_\_\_\_\_ LONG \_\_\_\_\_  
 PATIENT UNIT ID \_\_\_\_\_  
 IS AN EMT WITH PATIENT: YES \_\_\_ NO \_\_\_  
 AGE \_\_\_\_\_  
 SEX: MALE \_\_\_ FEMALE \_\_\_

**ALL EMERGENCIES---Secure the area and identify witnesses for later investigation. Keep an accurate log of events.**

ICS 206  
(Rev 03/12)

9. PREPARED BY: (Medical Unit Leader)  
Matt Lathrop MEDL

10. REVIEWED BY: (Safety Officer)

## Toll Road Use

Unauthorized emergency vehicle use on the toll roads will most likely generate a violation from the Transportation Corridor Agency.

If violations are received by responding agencies, follow these procedures:

- Send the TCA a certification referencing the violations received.
- The certification should include:
  - Violation date
  - Reference number
  - Purpose of Emergency

For questions please contact Transportation Corridor Agency Stephen Lee at 949-754-3474 or [slee@thetollroads.com](mailto:slee@thetollroads.com).

# eFC-33 INITIAL INPUT FORM

1 2 3 4 5 6 7

Overhead: complete one form per person.  
All Others: complete one form per vehicle.

Request Number

State Agency	INCIDENT CA	Incident Number	Incident Name	Incident Index Code	Incident PCA Code
--------------	-------------	-----------------	---------------	---------------------	-------------------

Strike Team	RESOURCE S T	Resource ID - Fire Assignment	Home Station / Office Location
	9 2 6 1 C	E2662	McCloud

YOUR NORMAL DUTY SCHEDULE	24 Hr 8-8 7-7 Other	Portal to Portal?	YOUR AGENCY	HOME UNIT	COMMIT RELEASE	YOUR CELL PHONE #
	<input checked="" type="checkbox"/> One Box	<input checked="" type="checkbox"/>	CAL FIRE	S K U		

PERSONNEL	Schedule	A	B	Other	Last Name	First Name	Rank or Classification	# of Regular Duty Scheduled Hours per Day												
								Mon	Tue	Wed	Thu	Fri	Sat	Sun						
EMPLOYEE 1																				
EMPLOYEE 2																				
EMPLOYEE 3																				
EMPLOYEE 4																				
EMPLOYEE 5																				
EMPLOYEE 6																				
						Robert	FC													
					Johnson															

VEHICLE	Schedule	A	B	Other	If Other, explain	Radio ID	Kind of Vehicle	ID No/X No	# of Regular Duty Scheduled Hours per Day											
									Mon	Tue	Wed	Thu	Fri	Sat	Sun					
VEHICLE 1																				
VEHICLE 2																				
						E-3499	FTH													



## ADDITIONAL INFO

License Plate #

Put a Dozer and it's Transport on a single form. All others, use one form per individual vehicle.



# SHIFT TICKET EXAMPLE

EMERGENCY SHIFT TICKET and EVALUATION FORM					Contractor Name																										
Incident or Project Name <b>CANYON</b>			Incident Number <b>CAORC 105068</b>		Request Number <b>E or S # Here</b>																										
Agreement Number <b>XXX - 000000 - 00</b>			Operator #1 <b>BOB SMITH</b>		Operator #2																										
Equipment Make <b>FREIGHTLINER</b>			Equipment Model / Type <b>WATER TENDER 2500 + GAL</b>		Operator Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government																										
Serial Number <b>1XP3ESMP14239012</b>			Licence Number <b>55555555</b>		Operating Supplies Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government																										
Equipment Use (Circle) <b>Hours</b> Days / Miles			Equipment Status <input checked="" type="checkbox"/> Inspected <input checked="" type="checkbox"/> Under Agreement		Released by Government Withdrawn by Contractor																										
Date Mo / Day	Start	Stop	Work	Assignment																											
8/3	0700	1900	12	DIV Z																											
8/4	1900	2400	5	OFF SHIFT																											
8/4	0001	0700	7	OFFSHIFT																											
Vendor Rating					Govt. Rep. Name and Position - PRINT																										
<table border="1"> <tr> <td>Poor*</td> <td>Avg.</td> <td>Good</td> <td>Exc.</td> <td>N/A</td> </tr> </table>					Poor*	Avg.	Good	Exc.	N/A	<table border="1"> <tr> <td>Govt. Rep. Signature</td> <td>Time</td> </tr> <tr> <td><i>Mike Weber</i></td> <td>0800</td> </tr> </table>		Govt. Rep. Signature	Time	<i>Mike Weber</i>	0800																
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Met Performance Expectations	<b>Vendor Rating must be done.</b>	Govt. Rep. Signature	Date																												
Equipment in Safe Working Condition		<i>Mike Weber</i>	08/04/15																												
Operator Skill Level		Contractor Signature	Time																												
Operates Safely		<i>Bob Smith</i>	0800																												
Operator's Cooperation Level		Date	Time																												
Overall Performance		08/04/15	0800																												
* NOTE: Any rating of POOR requires an explanation in Comment Section. **Final evaluation or for more documentation, use an ICS Form 230 or equivalent.					CALFIRE 297 (Rev 3-2011)																										
Pink - Finance		Blue - Home Unit HE Coordinator		Yellow - Vendor		White - Govt Representative																									

EMERGENCY SHIFT TICKET and EVALUATION FORM					Contractor Name																										
The responsible Government Officer will complete this form each shift																															
Incident or Project Name <b>CANYON</b>			Incident Number <b>CAORC 105068</b>		Request Number <b>E OR S # Here</b>																										
Agreement Number <b>XXX - 000000 - 00</b>			Operator #1 <b>BOB SMITH</b>		Operator #2 <b>BILL SMITH</b>																										
Equipment Make <b>PETERBUILT</b>			Equipment Model / Type <b>WATER TENDER 2500 + GAL</b>		Operator Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government																										
Serial Number <b>1XP3ESMP14239012</b>			Licence Number <b>9999999</b>		Operating Supplies Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government																										
Equipment Use (Circle) <b>Hours</b> Days / Miles			Equipment Status <input checked="" type="checkbox"/> Inspected <input checked="" type="checkbox"/> Under Agreement		Released by Government Withdrawn by Contractor																										
Date Mo / Day	Start	Stop	Work	Assignment																											
8/3	0700	2400	17	DIV M																											
8/4	0001	0700	7	DIV M																											
Vendor Rating					Govt. Rep. Name and Position - PRINT																										
<table border="1"> <tr> <td>Poor*</td> <td>Avg.</td> <td>Good</td> <td>Exc.</td> <td>N/A</td> </tr> </table>					Poor*	Avg.	Good	Exc.	N/A	<table border="1"> <tr> <td>Govt. Rep. Signature</td> <td>Time</td> </tr> <tr> <td><i>Mike Weber</i></td> <td>0800</td> </tr> </table>		Govt. Rep. Signature	Time	<i>Mike Weber</i>	0800																
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Met Performance Expectations	<b>Vendor Rating must be done.</b>	Govt. Rep. Signature	Date																												
Equipment in Safe Working Condition		<i>Mike Weber</i>	08/04/15																												
Operator Skill Level		Contractor Signature	Time																												
Operates Safely		<i>Bob Smith</i>	0800																												
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Overall Performance		08/04/15	0800																												
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Pink - Finance		Blue - Home Unit HE Coordinator		Yellow - Vendor		White - Govt Representative																									

**Turn shift tickets into Finance.**

# SHIFT TICKET EXAMPLE

EMERGENCY SHIFT TICKET and EVALUATION FORM					Contractor Name	
Incident or Project Name <b>CANYON</b>			Incident Number <b>CAORC 105068</b>		Request Number <b>E#</b>	
Agreement Number <b>XXX - 000000 - 00</b>					Operator #1 <b>BOB SMITH</b>	
Equipment Make <b>CAT</b>					Operator #2 <b>TOM SMITH</b>	
Serial Number <b>111111</b>			Equipment Model / Type <b>D6XM</b>			
Licence Number <b>111111</b>			Operator Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government			
Equipment Use			Operating Supplies Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government			
Date Mo / Day			Equipment Status <input checked="" type="checkbox"/> Inspected <input checked="" type="checkbox"/> Under Agreement			
Start			Released by Government			
Stop			Withdrawn by Contractor			
Work			Remarks/Comments **			
Assignment			<b>TWO OPERATORS NO DAMAGE/ NO CLAIMS</b>			
8/3 0700 2400 17						
8/4 0001 0700 7						
Vendor Rating			Govt. Rep. Name and Position - PRINT <b>Mike Weber</b>			
Poor* Avg. Good Exc. N/A			Govt. Rep. Signature <i>Mike Weber</i>			
Met Performance Expectations			Contractor Signature <i>Bob Smith</i>			
Equipment in Safe Working Condition			Date <b>08/04/15</b>			
Operator Skill Level			Time <b>0800</b>			
Operates Safely			Calfire 297 (Rev 3-2011)			
Operator's Cooperation Level			* NOTE: Any rating of POOR requires an explanation in Comment Section.			
Overall Performance			**Final evaluation or for more documentation, use an ICS Form 230 or equivalent.			
Pink - Finance			Blue - Home Unit HE Coordinator			
Yellow - Vendor			White - Govt Representative			

EMERGENCY SHIFT TICKET and EVALUATION FORM					Contractor Name	
The responsible Government Officer will complete this form each shift						
Incident or Project Name <b>CANYON</b>			Incident Number <b>CAORC 105068</b>		Request Number <b>E # Here</b>	
Agreement Number <b>XXX - 000000 - 00</b>					Operator #1 <b>BOB SMITH</b>	
Equipment Make <b>TRANSPORT/ KENWORTH</b>					Operator #2 <b>TOM SMITH</b>	
Equipment Model / Type <b>COZAD TRAILER /26 WHEELS</b>					Operator Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government	
Serial Number <b>1XP3ESMP14239012</b>			Operating Supplies Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government			
Licence Number <b>9999999</b>			Equipment Status <input checked="" type="checkbox"/> Inspected <input checked="" type="checkbox"/> Under Agreement			
Equipment Use			Released by Government			
Date Mo / Day			Withdrawn by Contractor			
Start			Remarks/Comments **			
Stop			<b>2 OPERATORS NO DAMAGE/ NO CLAIMS</b>			
Work						
Assignment						
8/3 0700 2400 17						
8/4 0001 0700 7						
Vendor Rating			Govt. Rep. Name and Position - PRINT <b>Mike Weber</b>			
Poor* Avg. Good Exc. N/A			Govt. Rep. Signature <i>Mike Weber</i>			
Met Performance Expectations			Contractor Signature <i>Bob Smith</i>			
Equipment in Safe Working Condition			Date <b>08/04/15</b>			
Operator Skill Level			Time <b>0800</b>			
Operates Safely			Calfire 297 (Rev 3-2011)			
Operator's Cooperation Level			* NOTE: Any rating of POOR requires an explanation in Comment Section.			
Overall Performance			**Final evaluation or for more documentation, use an ICS Form 230 or equivalent.			
Pink - Finance			Blue - Home Unit HE Coordinator			
Yellow - Vendor			White - Govt Representative			

**Turn shift tickets into Finance.**



**Canyon**  
**CA-ORC-105068**  
**Suppression Repair Plan for SRA lands**  
 September 28, 2017

**General**

- Repair any water lines and culverts that may have been damaged due to suppression activities where feasible.
- Remove berms and barriers created by fire control access and suppression efforts.
- Pack all trash out.
- Report any damages or needs to the Fire Suppression Repair Division Group Supervisor. Comp Claims will be notified if the damage cannot be fixed immediately.

**Staging Areas / Safety Zones**

- New Construction: pull berms, resurface, cross drain, remove debris resulting from use and scatter on site, and abandon (if applicable).
- Existing: Repair to original condition; cross drain, remove debris resulting from use and scatter on site (if applicable).

**Roads**

- Grade to original road prism where necessary.
- Clean culverts plugged with soil and debris resulting from fire control activities.
- Breach/remove berms to facilitate drainage.

**Firelines**

Dozers

- Where excessive berms were formed, back blade berms onto control line surface.
- Back blade or pull organic debris onto surface and scatter evenly over control line at designated sensitive areas.
- Construct waterbars.

Handlines

- Where excessive berms are formed, pull berms onto control line surface.
- Pull organic debris onto and scatter evenly over control line surface at designated sensitive areas.
- Construct waterbars to the same standard as dozer lines (see above)

Install waterbars on all constructed or used dozer lines, roads, and handlines using the following criteria:

Slope%	0-10	11-25	26-50	>50	
Dozer line and handlines (at every listed distance)	100'	75'	50'	50'	*All waterbars should be installed diagonally with a minimum cut of 6" into existing grade,
Road	200'	150'	100'	75'	

and minimum height of 18" from the bottom of the trench to backfill top. Waterbars shall be installed at all approaches to watercourse crossings. Waterbars shall be constructed to allow for drainage at the discharge end into non-erodible material and into the green where feasible. All waterbars to be constructed at 30 degrees, angled downhill.

### Watercourses

- All watercourse issues shall be reported to the Suppression Repair Group Supervisor immediately, before any work may begin.
- All slash, soil, and debris deposited into watercourses resulting from fire suppression activities shall be removed and stabilized.
- All loose soil must be pulled away from the watercourse and stabilized.

### Slash piles

- Piles within 150' of permanent structures or public roads will be lopped and/or scattered within 18" of soil surface, or chipped if feasible.
- Piles outside the 150' fire safe zone shall be retained for wildlife cover.

### Archaeological or Historic Sites (if discovered)

- All potential sites shall be avoided.
- Impacted sites will be reported to the Fire Suppression Repair Group Supervisor.
- If sites are encroached upon, work will stop immediately; **if there is no threat of fire spread**, and the Division/Group Supervisor shall be notified.

### Specific Repair Plan for SRA and State DPA Areas (Assessment is ongoing)

- **Division B** - Handlines: remove berms and construct waterbars where needed. Dozer line: remove berms and construct waterbars.
- **Division F** - Handlines: remove berms and construct waterbars where needed. Dozers lines: remove berms and construct waterbars. Water and grade Skyline Dr, Blackstar Canyon Rd..
- **Division M** - Handlines: remove berms and construct waterbars where needed. Dozers lines: remove berms and construct waterbars. Water and grade Main Divide Truck Trail.
- **Division T** - Handlines: remove berms and construct waterbars where needed. Water and grade Coal Canyon Truck Trail.
- **Division X** - Handlines: remove berms and recontour where needed. Dozer lines: remove berms and recontour where needed.

---

## ATTACHMENT 1.

### **Fire Suppression Rehabilitation Guideline**

Mitigation of suppression damages will minimize the long-term impacts caused by personnel and equipment. The following actions will be implemented to minimize long-term impacts from suppression activities.

#### **ROADS**

1. Existing dirt surfaced roads used for access will be returned as close to pre-incident condition as possible. This will be accomplished by pulling any significant amounts of side cast material back onto the road, watering and compacting the road surface.
2. Existing roads that are closed, but reopened for current incident use will be returned as close to pre-incident condition as possible. This may include repairing and/or replacing the original erosion control structures, cleaning and improving ditches and blocking the entrance to the roads.
3. Additional mitigations of suppression impacts to National Forest roads will be determined and directed by the Forest Engineer or designee.

#### **DOZER LINES**

All mechanical lines require archaeological and biological surveys prior to rehabilitation. Dozer lines will be treated by pulling outside berms back into the control line, re-contouring or out-sloping the surface to allow for drainage, and where necessary, placing waterbars in the control line. Installed waterbars will consist of a minimum of a six inch (6") cut into the firm bed of the control line and have a berm with a compacted height of no less than twelve inches (12"). The waterbars will be constructed diagonally across the control line at an angle of thirty-five to forty degrees. Where extreme slopes prevent the use of heavy equipment from placing waterbars in control lines, hand crews will be used to perform the necessary erosion control work. When dozer lines follow a ridge where there is no vegetation on either side, or where there is unburned vegetation on both sides (indirect line), re-contouring and waterbars should be designed to divert water equally to both sides of the ridge (herring-bone).

#### **HAND LINES**

All hand lines require archaeological and biological surveys prior to rehabilitation. Hand lines will be rehabilitated to allow for drainage by re-contouring and construction of waterbars. Waterbars for hand lines should be cut to a depth equal to the width of a standard fire shovel. The waterbars will be constructed diagonally across the control line at an angle of thirty-five to forty degrees. The outside end of the waterbar must be open and should discharge into an area where the ground surface is protected by vegetation that is unburned, if possible. Trenching and berms, where present, will be removed and any topsoil available will be pulled back cross the hand line. When hand lines follow a ridge where there is no vegetation either side, or where



there is unburned vegetation on both sides (indirect line), re-contouring and waterbars should be designed to divert water equally to both sides of the ridge. In some cases, chunking or berming may be used in combination with the above techniques to prevent access for unauthorized OHV use.

**WATERBARS**

Waterbars should be constructed at logical discharge points and guided by the spacing criteria as follows:

Fireline slope %	Maximum Distance Apart (feet)
1-14 .....	150
15-20 .....	90
21-40 .....	50
41+ .....	25

*Recommended spacing for waterbars on firelines. Waterbars should be no further apart than this, but they may be closer. When in doubt, put in more. Adapted from: UDSA-Forest Service, "Sale Administrator's Handbook"*

**REMOVED VEGETATION TREATMENTS**

**After the fire is under control and with the approval of the Incident Commander, vegetation removed to construct control lines will be scattered back onto the control lines. Approval for this could be a week or more after control of the fire depending on when the threat of restart has passed.**

**WATERCOURSE**

A watercourse is defined as a channel containing water or exhibiting a scoured bottom which indicates sediment transport or contains vegetation that grows in streams (i.e. willows, alders, ferns, etc.). Mitigation of suppression impacts will be determined and directed by the Resource Advisor and/or designees. Suppression activity causing ground disturbance of more than 800 square feet within 50' of streams will have appropriate erosion control treatment.

**INSTREAM IMPROVEMENTS (WATER SOURCES)**

All in-stream facilities and disturbance created by activities to improve water collection for fire suppression will be evaluated and mitigated under the direction of the Resource Advisor and/or designees. These facilities and disturbances include but are not limited to sumps, drafting locations, and intentionally blocked culverts. All building and other materials such as plastics, canvas, plywood, dimension lumber, etc., will be removed from such sites to a suitable disposal site or be recycled. All trash, cardboard, hoses, fittings, and pumps will be removed from the site.

## **HELISPOTS, HELIPOINTS, SAFETY ZONES, DROP POINTS, AND OTHER CLEARINGS**

All helispots, heliports, safety zones, drop points, and other clearings require archaeological and biological surveys prior to rehabilitation. All clearings constructed to support suppression activities will be returned as closely to pre-incident conditions as is possible. At a minimum, berms will be pulled or raked back into the site, if needed the site will be crowned to facilitate surface drainage and the vegetative material removed from the site will be lopped and scattered over the disturbed area to reduce erosion/unauthorized OHV potential. In some cases, chunking, berming or other barriers may be used in combination with the above techniques to prevent access for unauthorized OHV use. All areas cleared by heavy equipment must be surveyed for archaeological/biological resources prior to rehabilitation.

## **IMPROVEMENTS**

Improvements such as fences, gates, guzzlers, flood control basins, drainage structures, drainage channel, culverts, and paved roads damaged by suppression activities will be repaired to pre-fire conditions. When dealing with damages to private property, repairs/mitigations to improvements that are beyond the capacity of suppression resources, notify the Resource Advisor and/or designee and also the compensation claims unit.

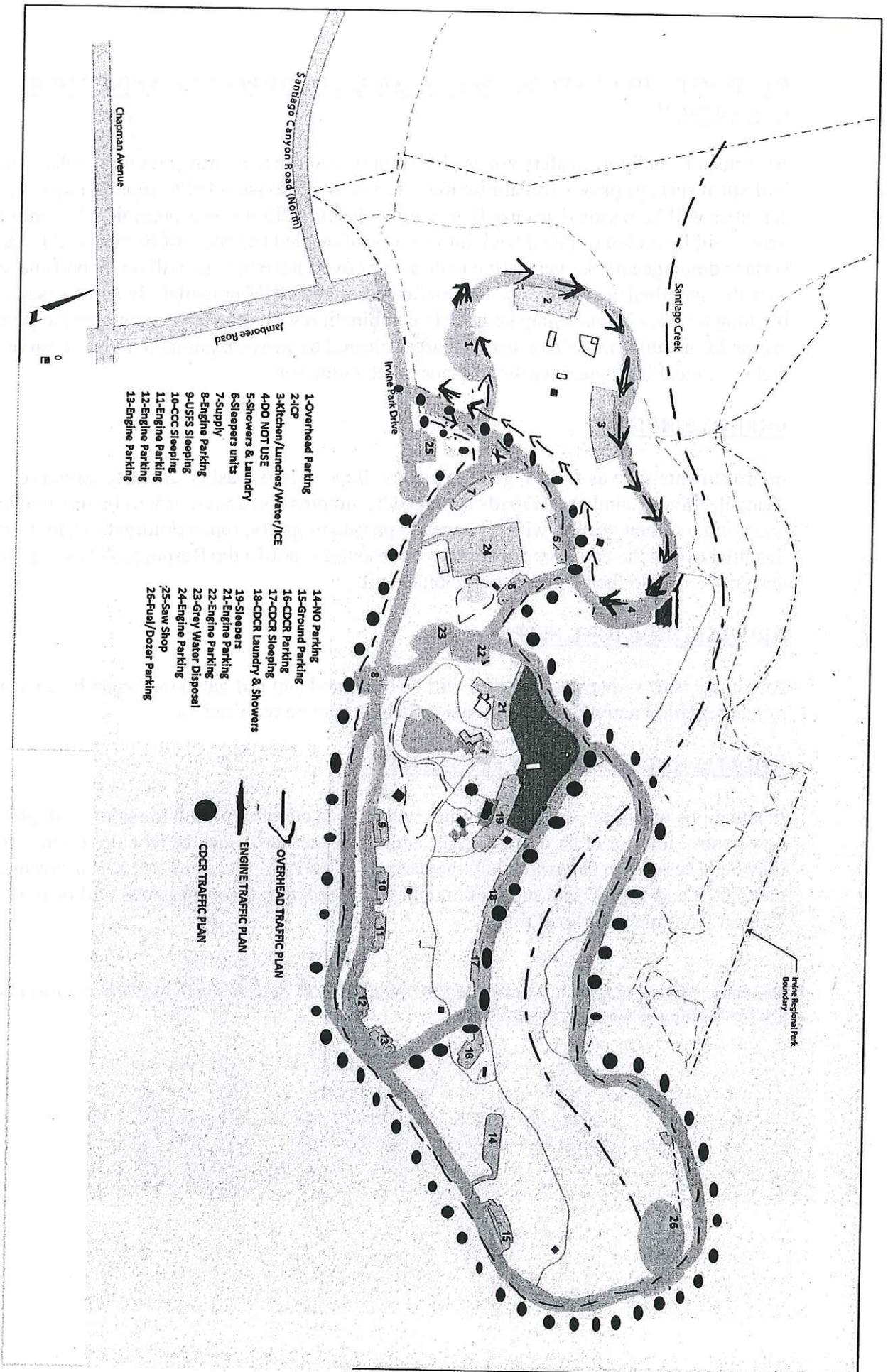
## **ARCHAEOLOGICAL SITES**

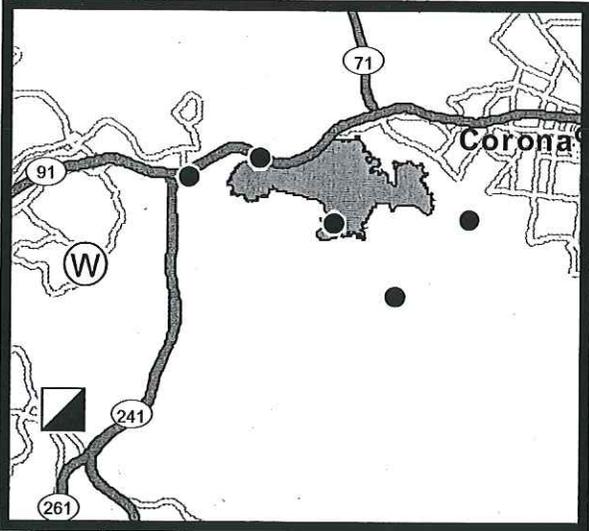
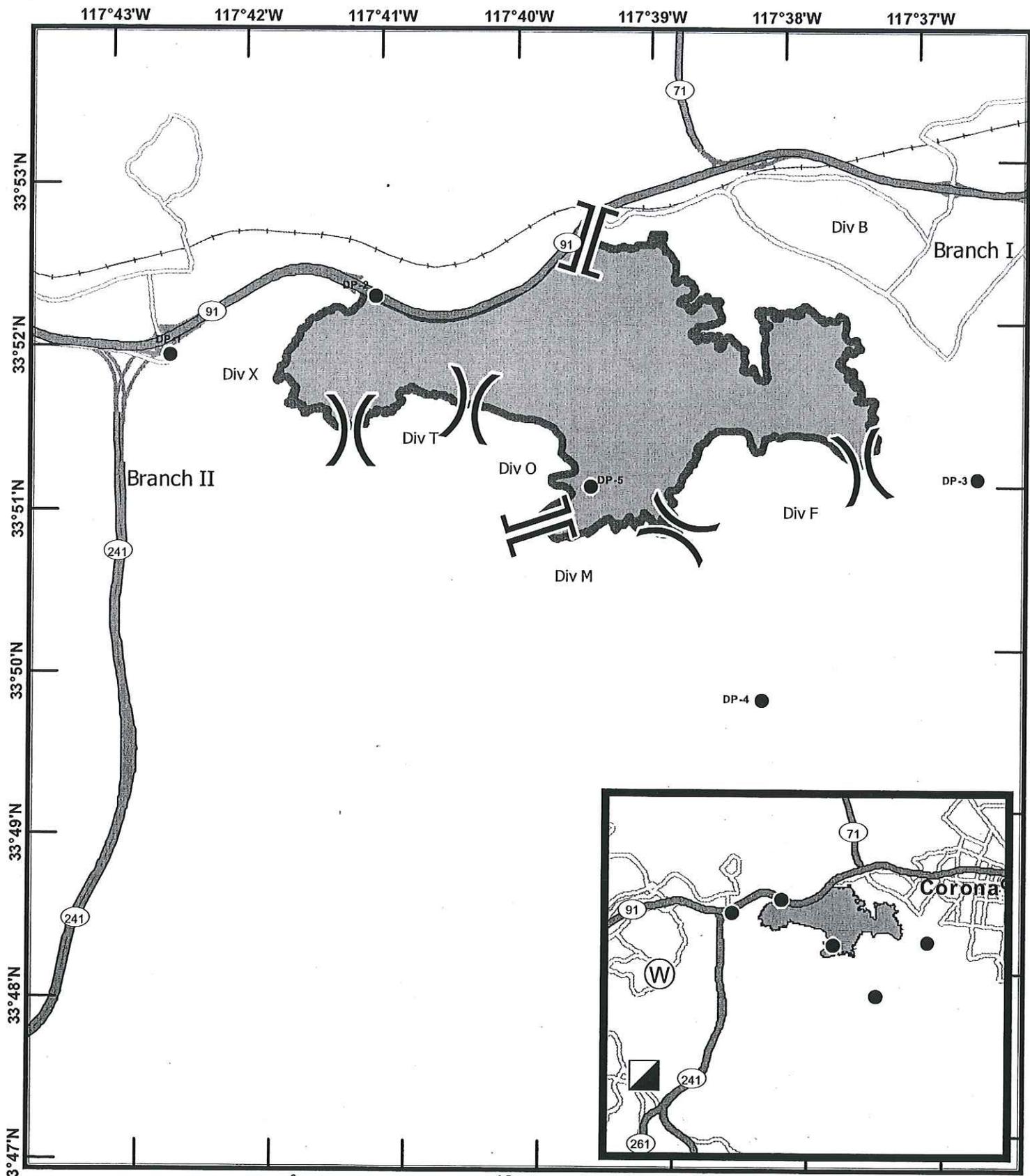
Any impacts to archaeological sites will be evaluated and mitigated on a case-by-case basis prior to rehabilitation activities. Additional measures may be required.

## **ADDITIONAL REHABILITATION NEEDS**

In situations where the above guidelines will not effectively prohibit unauthorized OHV use of new control lines or other cleared areas, additional measures such as fencing or other barriers may be necessary as determined by the Resource Advisor. Once site-specific assessments are completed and appropriate supplies and materials ordered, these measures will be implemented. This may require additional time.

**Reference: Hauge, C.J., M.J. Furniss and F.D. Euphrat. 1979. *Soil erosion in California's Coast Forest District*. California Geology. June, 1979.**

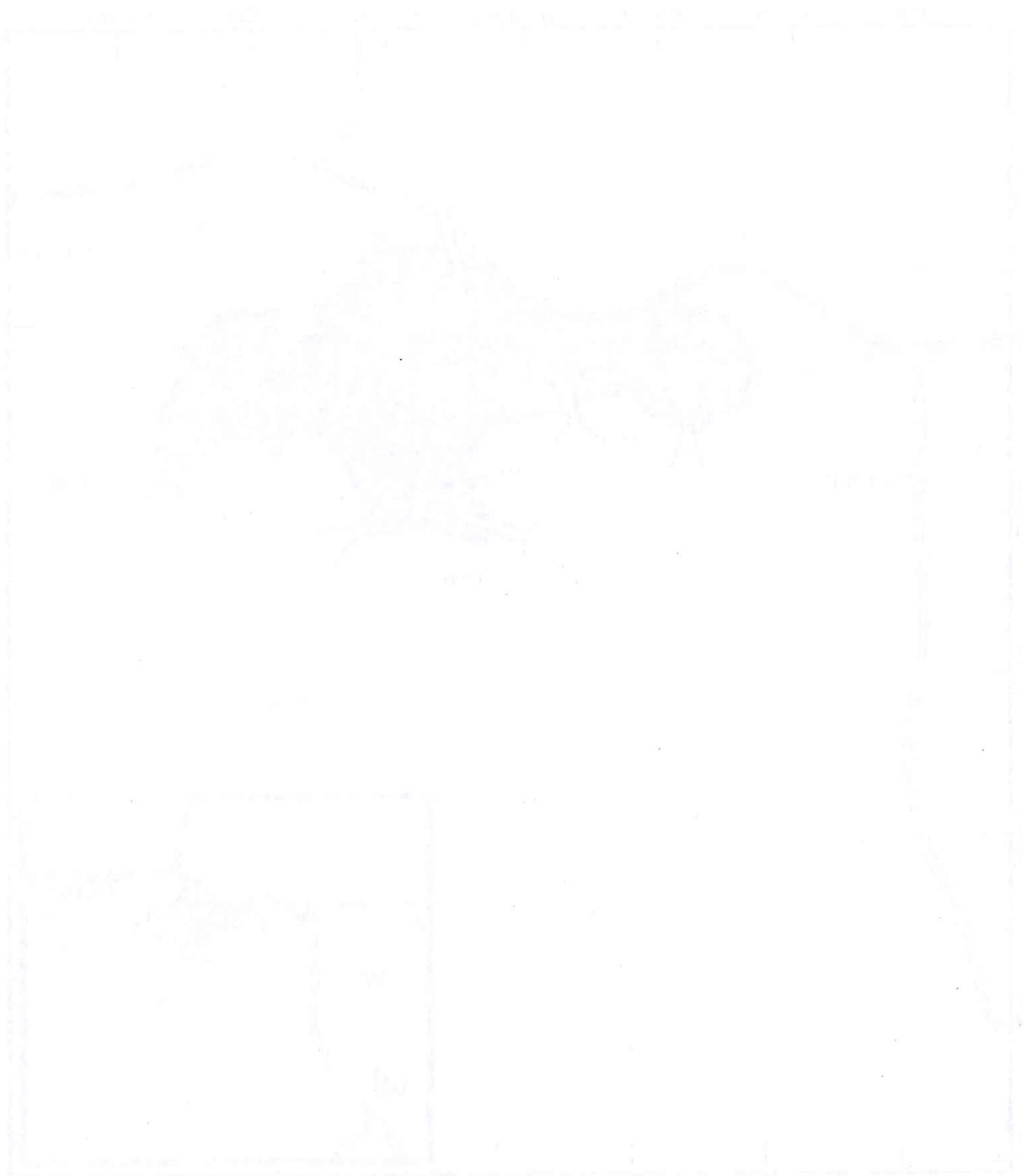




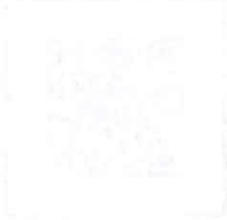
**JF**

**Travel Map**  
**Canyon Incident**  
**CA ORC 105068**  
**September 28, 2017**





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